

IMPROVED IN-BAND SIGNALING FOR DATA  
COMMUNICATIONS OVER DIGITAL WIRELESS  
TELECOMMUNICATIONS NETWORKS

## 5 Abstract of the Disclosure

An inband signaling modem communicates digital data over a voice channel of a wireless telecommunications network. An input receives digital data. An encoder converts the digital data into audio tones that synthesize frequency characteristics of human speech. The digital data is also encoded to prevent voice encoding circuitry in the telecommunications network from corrupting the synthesized audio tones representing the digital data. An output then outputs the synthesized audio tones to a voice channel of a digital wireless telecommunications network.